

# The Powers of the Cinema

- In  $4^2$ , 2 is referred to as the \_\_\_\_\_ (8 letters).
- If  $2 \cdot \square^2 = 32$ , the missing term is \_\_\_\_\_.
- A value raised to a power of 2 is said to be \_\_\_\_\_.
- In  $4^2$ , 4 is referred to as the \_\_\_\_\_.
- $2^2 \cdot 2^3$  is equivalent to 2 raised to the \_\_\_\_\_ power.
- 1, 4, 9, 16, 25, 36 are called \_\_\_\_\_ (2 words).
- $2^3 =$  \_\_\_\_\_.      8.  $2 \cdot 5^2 =$  \_\_\_\_\_.      9.  $2^3 + 3^2 =$  \_\_\_\_\_.
- Another term for exponent.
- An expression raised to the 3<sup>rd</sup> power is \_\_\_\_\_.
- $(5^2)^3$  is equivalent to 5 raised to the \_\_\_\_\_ power.
- In  $2^x$ , as the exponent increases, the value gets \_\_\_\_\_.
- An exponent of \_\_\_\_\_, when applied to non-zero terms, creates a value of one..
- In the expression  $4^x$ , as the exponent decreases, the value gets \_\_\_\_\_.
- $\frac{90^3}{90^2}$  is equivalent to 90 raised to the \_\_\_\_\_ power.
- $3^2 \cdot 3^3 \cdot 3^5$  is equivalent to 3 raised to the \_\_\_\_\_ power.
- $3.6 \times 10^{23}$  is written in \_\_\_\_\_ notation.
- $(23)(23)(23)$  is equivalent to 23 raised to the \_\_\_\_\_ power.



P	N	A	Q	M	T													
O	C	S	I	X	T	H												
W	U	X	M	S	I													
E	X	R	B	K	J	W												
R	T	V	Q	E	I	W												
L	Q	H	K	E	D													
S	I																	
A	I	U	A	I	Q	R	Y	U	Z									
N	H	T	N	E	T	U	D	O	E									
E	D	M	Y	H	W	E	A	Q	M	X	O							
D	S	R	Q	W	V	B	Y	R	K	Z	U	I	V	T				
S	E	R	A	U	Q	S	T	C	E	F	R	E	P	H				
S	C	I	E	N	T	I	F	I	C	D	Z	A	S	G				
F	I	R	S	T	J	N	P	D	F	H	A	K	Y	V	I			
X	I	S	P	K	U	T	W	Z	S	A					H	E		
S	M	A	L	L	E	R	W	Y	J									
E																		
Y	A	X	Z	L	P	O	I	L	X	U								
F	O	U	R						T	P	A							
									S	O	D							
									N									
									E	E	U							
									E	R	N	B	W					
									T	E	Y	T	F	I	F			
									N	G	P				J	Z	V	
									E	R	F				W	M	T	
									V	A	I				Z	B	T	
									E	L	F				E	A	S	
									S	X	T				E	R	S	F
									M	U	H				O	E	R	

Determine the answers to the clues, and find the answers in the word search puzzle. All answers are words.